

R E M A R K S

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Claim 19,22 and 23 are patentable

1. The reinforce structure made off solid steel bar the length may be one story high or longer. The struck are attached to reinforce cross bar at lower end of reinforce legs similar to "u" save alike. The lift table adjust high by using lift drive. (Aug using connecting rod)
2. The reinforce structure are have to be inserting all the way in side scissor leg to strength the lift table when use as high elevation lifting.
3. When use as reinforce legs the steel bars do not have pin hole 80a-g for telescoping

structure to prevent breaking off between pin holes wild lifting the table. fig 4b.

4. This telescoping structure are scissor type legs with the center of hinges 102a and 102b welded to the lower portion of scissor legs tubing.(laug support are not scissor type)

5. Can be extended front pair or rear pair for tilting the platform frame.

7. The extend legs attached to cross bar and cross bar attached to wheel different to laug invention.

6. When insert or extend scissor legs it's created many new function better and different from other prior art. Such as conversed from hand truck to high elevation lift table, high elevation tilting to load or unload power lifting. Removed the reinforce legs helping reduced weight for convenient tilting hand truck. Can be extended front legs to pass center gravity fig.2e.

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The above claims are presented before examination to further define the inventor's belief in the scope of his invention.

Respectfully submitted,

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Patent application of

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for

**COMBINATION LIFTING, PLATFORM, HANDTRUCK, SCAFFOLD,
FLOORJACK AND MECHANIC' CREEPERCLEEPER**

RELATED APPLICATION

Reference is made to my provisional application no. 60/228577

Filed 8/29/2000 entitled "Combination Lifting and Cart"

"combination lifting and cart"

BACK GROUND OF INVENTION

Field of invention

This invention relates in general to a multi-use portable lifting, and more specifically, the invention discloses how a portable lifting can be converted into a tilt back hand truck, a regular hand truck, a scaffold, a floor jack or a mechanic' creeper.creeper.

Description of prior art

Various combination of lifting and moving devices have been known in the past.

U.S. patent 4,258,826 to Murray, ~~discloses~~ disclosing a hand cart that can be converted to a convert to stepladder and further disclosing a winch type that can raise a load to a higher level.

U.S. patent 3,751,058 to Lasen discloses a combination ~~show~~ shovel, wheel barrow and dolly.

U.S. patent 6,173, 811~~881~~ to Dean Tonabene, discloses a combination hand truck, stepladder and basket carrier.

U.S. patent 6,189,653 to Laug Horst discloses a multi-purpose scaffold.

U.S. patent 4,494,626~~4,949,626~~ to Dale a. ast discloses a combination stepladder and hand truck apparatus.

U.S. patent 4,488,326 to Chales w. chery, discloses a pallet dock lift.

What is needed is a combinations lifting, platform, tilt back hand truck, scaffold, floor jack and mechanic' creeper. None of the above patents describe the present invention.

Objects and advantages

(a) One object of this invention is to provide a combination lifting, platform, tilt back hand truck, work ~~buget~~, bucket, scaffold and a mechanic's creeper apparatus which is readily convertible from a compact lift table structure into a rigid multipurpose tool structure.

(b) To provide the combination of tools simple inexpensive to manufacture, manufacture to operate and maintain.

(c) To provide a closure which can be used by consumers, without special tools or training.

(d) To provide a tool that can complete work from start to finish with out the need for to transfer the load from one device to another that may cause injury.

(e) To provide a closure which can be achieved by consumers without the use of a big vehicle to delivery a load because this invention is compact and light weight, using only a small amount of storage compared to the previous ~~product~~, this product. This invention can help consumers and business' save money which would other wise be spent on the high cost of gasoline.

(f) A combination which all the load are rested on extensible tilted where all the loads are rest on an extensible device and front scissor legs when legs. When the lift table elevate is elevated then the load will rested on scissor legs which provide different functions from previous inventions.

(g) Another object of this invention is having a new and novel is to provide a combination lift to provide a table, tilt-back and hand truck which can be delivered from the ground both ground. Both load and combination lifting platform it self to different level such as truck are made at different levels ; such as a truck, dock and roof with out using high cost dock ,fork lift by converted and transfer weight from lift or, fork lifts. By converting and table position to transferring the weight from the lift table to the position to the tilt-back six-wheeler (climb up) and continuethen it continues moving the load all the way in side the truck bed where the folk lift is unable to reach.

(h) A combination of support plate and approach ramp, providing support plate, provides a pivotally inserted support plate member which normally carries a load when used as a hand truck. It can move upward.

and lock in place providing a compact structure for storage. It can also be suspended and

lowered to the ground, docked and used as a platform. Unlike the other previous product this

mechanism can be used as a scaffold, work ~~buget and~~bucket and can also be used as a creeper andor floor jack.

(I) Another advantage of this invention is the lift assembly mechanism that can be folded for more compact and coupling to the rear portion of the lift table providetable. Providing the maximum lowest point to the ground alsoground. Also the support plate can be put in lower position and converted to get to the platform makemaking it possible to roll the load in and out also when attach with the hand crank pusher wheel, the platform and support plate can move slidable beneath many stagsstacks of boxes in one pass.

(j) It can be elevated to the desired high and usedusing the support plate which picks up the load from the truck or dock.

(k) To provide a lighter product in weight than what already is known by using a light weight.

~~swivel wheel which can be rotate and use~~wheels which can be rotated and used as a stop instead of using the lower frame assembly also the assembly. The scissor legs are made of steel or aluminium square tubetubing instead of heavy steel bare and bars using the combination extend legs and reinforceextended legs help the scissor legs only when needing more strength for lifting on heavier loads.

(1) Provided multiple function attachments which can be coupled, using the same coupling device such as pockets, brackets and locking pins.

(m) Multipurpose The scaffold and stepladder provide lifting loads, for tools, lumber, heavy loads and work in-side or out side the building. It is convenient when used with a remote control and tilted parallel with the ceiling, roof, pole, or work place for more convenient with new function-functions.

(n) A work ~~buget~~ is can be carries, liquid, rock and sand. ~~it~~ bucket can be carry, liquids, rocks and sand. It can be lower to the ground and roll in and out a load also ~~elevate~~ elevating tilting and dumping the load.

(o) Further objective and advantages is to mark it easier for the user to carry and transport cargo when the structure is in the hand truck usage position.

(p) A mechanic's ~~creeper~~ sleeper ~~creeper~~ can be tilted enabling a labourer to work face down and closer to the work place. It can be elevated and lowered to ~~aceesses~~ work place access work places that are hard to reach.

(q) A mechanic's ~~creeper~~ work as seat supports a worker an ~~upright~~ ~~creeper~~ works as seat to supports a worker, an ~~upright~~, or set tool box at the same time also elevate tool box at

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~~desire level for work condition time. It also elevates a tool box to the desired level for working conditions.~~

(r) ~~Another~~ Other advance is the floor jack which ~~load or unload~~ jack, which loads or unloads automotive parts, large size spare ~~tires~~ tires and raise and align the vehicle at the same time.

(s) Supply's It supplies an incline for fast convenient loading and unloading with less effort.

(t) Using only a single lift drive ~~to~~ for tilting, lifting, lowering and declining with ~~out an~~ an additional hydraulic device or other drive/control devices.

(u) The combination is available in different size and ~~selections~~ sizes and selections for different uses.

Fig. FIG. 1J is an enlarged partial sectional view of the combination support plate and approach ramp also support plate, also a support plate channel taken along the line 1J--1J in Fig. 1I; FIG. 1I;

Fig. FIG. 1K is an enlarged partial sectional view of the support plate channel locking mechanism take along the line 1K--1K in Fig. FIG. 1I;

Fig. FIG. 1L is an enlarged partial sectional view of the combination support plate approach ramp and support plate locking mechanism take along the line 1L--1L in Fig. 1I; FIG. 1I;

Fig. FIG. 1M is an enlarged partial section view of the combination support plate approach ramp and support plate channel take along the line 1M--1M in Fig. 1I; FIG. 1I;

Fig. FIG. 1N is a partial exploded perspective view of a combination of extended legs and reinforce legs with wheel assembly;

Fig. FIG. 1O is a partial exploded perspective view of a combination extended legs and reinforce legs with cross beam; a cross bar;

Fig. FIG. 1P is an enlarged partial view of the swivel wheels assembly taking taken along the line 1P--1P in Fig. 1I;

FIG. 1I;

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Drawing figures

Fig. FIG. 1A is a side elevational view of the lift table in accordance with this invention it is shown in a lowered transport condition with a removable extensible bar attached on lower cross beam an extensible device attached to the lower cross bar and platform;

Fig. FIG. 1B is a side elevational view of the lift table in an elevated position;

Fig. FIG. 1C is a left end view of the right shown in FIG. 1A;

Fig. FIG. 1D is a left end view of the right shown in FIG. 1B;

Fig. FIG. 1E is a removed sectional view of the extensible bar and tilt device;

Fig. 1F is FIG. 1F is a side view of manually a hand crank lift assembly;

Fig. 1G is FIG. 1G is a side view of the hydraulic lift assembly;

Fig. FIG. 1H is a side view of the embodiment of FIG. FIG. 1G, showing a hydraulic lift assembly in a lowered position;

Fig. FIG. 1I is a top view of FIG. FIG. 1B in its elevated position;

Fig. FIG. 1Q is a sectional view of the swivel wheels assembly takingtaken along the line 1Q--1Q in Fig. FIG. 1P;

Fig. FIG. 1R is an enlarged partial section view the pivot pin assembly takingtaken along the line 0

IR--IR in Fig. 1A; FIG. 1A;

Fig. FIG. 1S is a sectional view of the pivot pin assembly takingtaken along the line IS--IS in Fig. FIG. 1R;

Fig. FIG. 1T is a is an enlarged partial sectional view similar to Fig. FIG. 1M except it is showing the support plate in the lowered to the floor level;

Fig. FIG. 2A is a side view of the lift table in accordance with the invention is shown in a lowered. transport condition with a removable extensible bardevice attached ento an upper cross beam and

bar and platform cross beam; frame;

Fig. FIG. 2B is a side elevational view of the lift table in an elevated position;

Figs. FIGS. 2C through 2F are side views of the lift table with a tilter an extensible device, showing it's use thereof;

Fig. FIG. 3A is a side view of the lift table shown in lowered to the floor level and lifting stackers;

Fig. FIG. 3B is a side view of the lift table in an elevated position;

Figs. 3C is FIG. 3C is a side view of Hand the hand crank pusher wheel;

Fig. FIG. 3D is shown in the hand truck usage condition or standard two wheeler;

Fig. FIG. 4A is a side view of the lift table in use as a stepladder;

Fig. FIG. 4B is a side view of the lift table in use as a multi-purpose scaffold;

Figs. FIGS. 5A and 5B are views of the lift table in use as a multi-purpose work bucket; work bucket;

Figs. FIGS. 6A and 6B are side views of the lift table in use as a mechanic's creeper;

Fig-FIGS. 6C and 6D are side view and top view of the lift table in use as a automotive floor jack;

Summary of invention

It is the object of this present invention is to provide a combination lifting, platform, tilt back hand truck, scaffold, work ~~buget~~, bucket, floor jack, and mechanic's ~~sleeper which~~, creeper. It is readily convertible from a lift table into a tilt back hand truck, or readily convertible from a lift table in to a scaffold or readily convertible from a scaffold to any of the above mentioned functions.

functions with out the need to transfer the load between operation.

Another objective of the present invention is to provide provides pocket, bracket, extension legs,

legs, extensible bar device and pin holes to couple to a variety of different devices to achieve different function results in an results. In this new product which it provides a function that uses both the lift table aspect and the modified or added on function aspect to provide results superior to the sum of using separate devices to perform the two function when perform two function functions. When perform in two functions or more than two function, such as provide a tilt back hand truck which can be delivered from the ground both load and combination lifting platform it self to different level such as truck bed by converted and transfer levels such as a truck bed by converting and transferring weight from lift table position to support plate or tilt back six wheeler then wheeler. Then convert to hand truck two wheeler and continue to move the load all

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the way inside the truck bed-allbed. All of this on the same modified lift table and without
the need for transfer of the load from one device to another device. without additional
hydraulic cylinders or other drive/control devices.

DESCRIPTION - FIG. 1 TO 6D WAS

Figs. 1B and 1D depict FIGS. 1B and 1D depicts a scissors-type hydraulically-driven or screw thread-driven, liftable 10 (Fig. 1E-1H lift assembly will be described in more detail later). Two pair of scissors liftable 10. Two pair of scissor legs 15a, 15b, 15c, 15d, made of steel or aluminium tube are mounted at a first end, e.g., using pivot pin 16a, 16b, (between cross bar 42d) to both side of upper support 16a, 16b, (between the cross bar 42d) to both sides of platform cross frame 17a, 17b, and pivot to both front wheel 18a, 18b, (between the cross bar 42c) to lower portion of the scissor legs the scissor legs. The upper support frames include the platform cross frame 17, a17a, 17b, and deck 11. The opposite ends of the scissor legs are coupled to both rollers 16c and 16c, 16d and swivel wheels assembly 18c, 18d, Fig. 1P FIG. 1P to lower portion of scissor legs part of scissor legs as part of scissor motion describes scissor motion described below, are free to move along horizontal surfaces of wheel 18a, 18b, swivel wheels 18c, 18d, Fig. 1P. the FIG. 1P. The first pair of scissor legs 15a, 15b pivotally coupled, defining a scissor pivot pin 12a, 12b scissor pivot pin 12a (pivot axis) and the second pair of scissor legs 15c, 15d are pivotally coupled at the same axis 12a or pin 12b, a pin 12b. A drive or motive device such as a hand operated hydraulic pump or other control may be provided for

extending or retracting the hydraulic cylinder 13 and cylinder rod 14 other 14. Other drive or motive devices are screw thread -driven which may be by hand cranks, power which may be hand cranked, powered by electric hand drill or power by an electric powered by electricity or air. Energy for screw thread-driven may be provided from an on-board battery and /or from an electric power via a cable (not shown) optionally, shown). Optionally, a switch or other control may be provided such as remote control (not shown). shown).

In the depict embodiment, the hydraulic cylinder 13 is pivotally coupled at one end to pivot pin 29 and the lift arm 23, extending between the ball joint 26 and bracket 34d mounted cross bar bracket 34d. Mounted at the center of cross bar 42b with

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connected to the scissors legs 15a, 15d and pivot pin 25 (pivot axis) mounted to lift arm 22 and pivotally coupled at the opposite end, to the cross bar lift arm 22, extending between. The ball joint 24 and cross bar bracket 34c are mounted at the center of lower cross bar connect to the scissors 42a and connected to the scissor legs 15b, 15c and pivot pin 25 (pivot axis), when axis. When the hydraulic cylinder 13, rod 14 cylinder rod 14 and support rod 27 are extended they cause lift arms 22 and lift arm 23 to spread apart pushing the cross bare 42b and platform 10 upward in Fig. 1B, 1D, 1G, and when deck 11 upward as in FIGS. 1B, 1D and 1G. When the hydraulic cylinder 13 is retract causes retracted it causes the lift arm 23 to lowering the cross bar 41 and platform assembly to lower. Best seen in Fig. 1H, 3A, lower the rear deck cross bar 41 and the platform assembly. Best seen in FIGS. 1H and 3A.

In the depicted embodiments of Fig. 1A, 1B, FIGS. 1A and 1B the rear deck cross bar 41 is attached to bracket 55a, 55b, by welding and extend is pivotally at one end to a rod 50 and extensible tilt device 40 by adjusting pin 54 inserted in 55b by welding and is pivotally attached at one end to a extensible rod 50 and the extensible device 40 by locking pin 54 inserted to holes 200a 200b 200c 200d and 200d. The extensible device 40 is rested on bracket 51 and attached by pin 53 to cross bare 42 locking pin 53a to cross bar 42a. the lower end of scissors legs 15B, 15C (1E) when scissor legs 15b, 15c (FIG. 1E). When the hydraulic cylinder 13 retract cause causing the front cross bar 43 (support plate channel) or pivot 16a, 16b (Fig 1A) 42d and support plate channel 43 or pivot pins 16a, 16b (FIG. 1A) are mounted to the upper end of scissor legs 15B, 15C 15b, 15c to tilted and lowered best seen in FIG. 1A tilt Fig. 1 tilt back six wheeler position also when elevated back six wheeler position. Also when elevated, the lift table 10 it's provide provides lifting and tilting at the same time also when lower as lowering the lift table provide 10 provides tilting and lowered lowers lift table 10. The lift table 10 can be used as a number of function, such as a tilt back hand truck, as a inclined lift table 10 as a portable loading dock and also used as a transporting cart. The device can be used for to load and unload boxes, plywood, glass, table and office partition also can be pushed by hand. The handrails 420a and 420a, 420b may be used for securing the load from falling best seen in Fig. 4B. To FIG. 4B. For unloading the load from lift table 10 to van or truck adjust the extende extensible rod 50 a little higher than van or truck to truck. To provide an inclined for deck 11 then release the securing deck pin 221 with attach to bracket 220 welded to crossbar 42b then unlock the support plate channel lock 61 kick the support plate and approach lamp 49 to lowered position so that it

rests on the van bed and moves the load over the approach lamp from deck 1011 to the van is also using a minimum afforded and man power also when unload power. When unloading from van to lift table 10, adjust extend leg 72a, 72b, (Fig. 72b, (FIG. 1N) higher than rear deck 11 to provide an inclined then rests in line, then rest the support plate 49 on the van bed or truck bed then bed. Then move the load to lift table 10 and lower the lift

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table 10 it to convert to tilt-back position. position then lift cross bar. Then lift crossbar 42a or step on support plate 49 and converted to hand truck position FIG. 3D then FIG. 3D. Then move load off support plate 49.

off the support plate 49. The extensible tilt device 40 can be fold-in and fold-out between extend rod 50, micro 49. The extensible device 40 can be folded-in and out between extensible rod 50. Micro adjust-stop pin 52 to preside precise height or angle, convert angle. Convert from tilt-back position to platform position (FIG. (Fig A1), to provide an inclined incline to quickly roll loads on and off, to off. To use as a t-bar dolly by attach to bracket 44 to locking pin 303. It can be also used as a hand crank pusher wheel 48 (Fig. 3A), (Fig. 3C) (FIG. 3A), (FIG. 3C) or electric pusher wheel (not shown).

In the embodiment of FIG. 1F, The screw thread-driven lift assembly. The ball joint 38a 38b is welded to the left portion of the support arm 32a and on the lift arm 32a. The right side of support the lift arm 32a is attached to the folding support arm 33 attach to hole 35 which is attached to holes using bolt and nut 130a, 130b, on both side 130b on both sides which are also attached to the stop pin 36a, 36b, in the slot 37a, 37b both side 37b. Both sides to permit movement configuration support arm 33, possible restrained by stop pin 36 (32a, and (lift arm 32a and support arm 33 are the same axis) the support axis). The lift arm 32a is pivotally attached to the right side of lift arm 32b by bolted and nut 34a, 34b, (pivot axis) and on the left side of lift arm 32b is welded to ball joint 38b 38a. A nut 121 attached by is welded it to the upper center of the bracket 122 and pivotally attached to top edge

both side edge. Both sides of lift arm 32b using a bolt and nut 123a, 123b, 124a, 124b. A single 124b FIG. 6D. A threaded shaft 39 is attached between nut 121 and hand crank gear assembly, when cranked assembly. When cranked, 125a is rotated, which causes lift cause the arm 32a arm 32b to spread apart and raise the lift table 10 or

drawn together causes to ~~lower~~lower the table. The hand crank assembly included gear bracket 126 is provided with coupling hole 131 for shaft 39 is attached with gear 129a by ~~welded~~ and holes 127a, 127b, ~~hole~~ 131. Threaded Shaft 39 is welded to gear 129a by welded. Holes 127a, 127b provided for shaft 125b, is attached to gear 129b by ~~welded~~ also welded to gear 129b. The hand crank 125a is ~~coupling~~coupled to shaft 125b and joint 125c. ~~the~~ The gear bracket 126 is attached between the top edge of the folding support arm 33 to ~~holes~~ 132a, 132b, ~~be~~pivot attached by nuts and bolts 134a, 134b, 134d, 134f, also a single ball bearing is spaced between gear bracket 126 and crown gear 129b respectively 134f.

the depicted embodiment of FIG. 11, the construction of the lift table 10 which includes a flat loading surface, or deck 11, may be made from wood, steel, fibreglass with or without a rough surface. The deck 11 is supported by a plurality of cross bar 17, 41, 19a, 19b and 19c, bars 17, 41, 19a, 19b, 19c support plate channel 43 longitudinal platform cross support frame 17a, 17b, frames 17a, 17b and brackets 55a, 55b, 55b provided with select holes 200a, 200b, 200c, 200d, located between cross bar 19a and 41, the rear deck cross bar 41. The platform secure is secured by pin 221 and secure bracket 220 bracket 220 which is welded on upper rear deck cross bar 42b near upper portion of scissor leg 15a. the deck 11 are provided. Deck 11 has pockets 403a, 403b, 403c, 403d for stepladder 400a and pockets 405a, 405b, 405c, 405d, for rails 420a, 420b, also provided 420b. There are holes 601a, 601b, for head support 600. (403a, and 403b, can be used for bucket 500.

rest 600 and pockets 403a, 403b, can be used for work bucket 500.

the lift table 10 includes a pivoted combination support plate and approach lamp 49

Figs. 1J, 1L, 1M, 1T, 49 FIGS. 1J, 1K, 1L, 1M and 1T. It can be removed from the support plate channel or front cross bar 43 by pressing on support plate channel lock 61 is mounted to support plate channel 43 by bolt 60 causing the spring 68 to collapsed then removed collapse and remove the support plate 49. On first and 49. On both second end the support plate 49 included support plate rods holder 63a, 63b, be attached by clamps 64a, 64b, and are welded to support plate 49, also stop 66a, 66b, welded to support plate 49 and spring 65a, 65b, are spacing between rod holder 63a, 63b, and stop 66a, 66b, to 66b. To remove support plate 49 completely from support channel 43 then 43. Then press rods holder 63a, 63b, and remove support plate 49 from support plate channel slot 69 FIG. 1J. The support plate 49 can be swung upwardly when the lift table 10 is being transported or stored, the stored. The support plate 49 can be lowered, for engagement with the floor or dock as a approach lamp FIGS. 1T and 3A.

The Fig. 1T, 3A, the lift table 10 lift table 10 can be suspended in its lowered position by engagement with a stop 70, or shoulder welded to support plate 49 in Fig. 1T, 3A, the FIGS. 1T and 3A. The support plate 49 can be raised in to the elevated position, and lock in to support plate channel 6343 as seen in FIG. 1B FIG. 1B. It is also can be used as a standard hand truck, two-wheeler or tilt-back six-wheeler when support plate 49 was locked in channel 43 Fig. 1A, 11, 1M, theis locked in to channel 43 FIGS. 1A, 1L, and 1M. The support plate 49 is available in different sizes and some make for work bucket (not shown).

In the embodiments depicted in FIGS. Figs. 1N and 1O are a combination extend legs and reinforce legs with wheels assembly are provided for the coupling to lift table 10 by extending coupling to the lift table 10 by extend legs 72a, 72b, 72c, 72d. By inserting them in the lower end of the scissor 72d, by inserting in lower end of scissor legs 15a, 15b, 15c, 15d, respectively. Respectively. The lower end of the scissor legs are scissor legs also included with an adjust stop pin adjust-stop pin and holes 81a, 81b, 81c, 81d. For 81d, for adjusting high to extended legs 72a, 72b, 72c, 72d, they are and provided with holes 80a, 80b, 80c, 80d, 80e, 80f, 80g, on each of the extended legs.

In FIGS. 1N and In Figs 1N, 1O, cross bar 73a, are coupled by welding the wheel to support the shaft mounted to wheels members 75a, 75b, (Only the 75a and 75b, (only cross bar 73a is equipped with wheels). Cross bar pockets 74a, 74b, 74c, 74d are coupled by welding the top of cross bar 73a, 73b. Cross bar pockets 74a, 74b, 74c, 74d are included cross bars pockets 74a, 74b, 74c, 74d, coupled by welding on top of cross bare 73a, 73b, pockets 74a, 74b, 74c, 74d, included locking pins and holds 77a, 77b, 77c, with locking pins 77a, 77b, 77c, 77d. They are inserted with lift table 10 scissor legs to 77d, then inserted upper cross bars with extend legs 72a, 72b, 72c, 72d, and insert extend legs to cross bar pockets 74a, 74b, 74c, 74d. Then 74d, and press locking pins 77a, 77b, 77c, 77d, to seated in holes 79a, 79b, 79c, 79d, with the to locked cross bar 73a, 73b,.

The extend legs 72c, 72d and cross bar 73b when attached together can be used as a stop. They help to prevent lift table 10 from rolling away. It also can be extended stop help prevented the table 10 rolling away also can be extend in order to elevate one end of the lift table 10 provides is provide an incline roller for fast load or unload and for reinforcing tubular legs.

— and unload.

Figs. 1P. In the embodiments depicted in FIGS. 1P and 1Q, the swivel wheels assembly 16a, 16b, are located on both side of lift table 10 which included bracket 90a, 90b, 91a, 91b, and hub 86a, 86b, table 10. They includes brackets 90a, 90b, 91a, 91b, and hub 86a, 86b. They are welded together as shown, with shaft 85a, 85b, welded then welded to lower end of scissor legs 15b, 15c, and attached to hub 86a, 84c, 84d, mounted to bracket 90a, 90b, using nuts 88a, 88b, 88c, 88d, and bolts 87a, 87b, 87c, 87d, (the 86b. The swivel wheels 84a, 84b, 84c, 84d are mounted to brackets 90a, 90b, using nuts 88a, 88b, 88c, 88d, and bolts 87a, 87b, 87c, 87d. (The swivel wheels help cut down on weight instead of using the lower frame with the wheels assembly) also wheels may be made of rubber alike or steel. The swivel wheels assembly 16a and 16b can be rotate 180 degree to provide a stop 16a, 16b prevented the table 10 can be rotated 180 degrees to provide a stop, preventing the lift table 10 from rolling away.

In the embodiments depicted in FIGS. 1R and Fig. 1R, 1S, a pair of pivot pins 12a, 12b, (12b shown in FIG. 1C) are the 12b, (12b shown in Fig 1D) are center of hinges 102a, 102b. They 102b, and welded to lower portion of scissor legs 15a, 15d, and pivot pin 12a, 12b, are welded to the lower portion of scissor legs 15a, 15d. The pivot pins 12a, 12b are welded to the lower portion of the scissor legs 15b, 15c, bolt 15b, 15c, bolted by nuts 104a, 104b, caused the pivot axis to be at lower a lower portion of the scissor legs. It provided portion of scissor leg provided the space for extend legs 72a, 72b, 72c, 72d, made 72c 72d, make it possible to insert in square tube help or reinforced the scissor legs 15a, 15b, 15c, 15d.

In the embodiments depicted in FIGS. 2A and 2B, the rear deck cross bar 41 is mounted with brackets 55a, 55b and locking pin 54 is extended to pivot at one end of the extensible rod 50 extensible device 40 (FIG. 1E) rests on bracket 51b, locking Fig. 2A, 2B, the rear lift table cross bar 41 mounted at bracket 55 pin 54 to extended is pivotally at one end to rod 50 extensible tilter device 40 (Fig. 1E) rested on bracket 51b, pin 53b and cross bar 42b. The 42b, the upper end of the scissor legs 15a, 15d,

(FIG. 1A, extensible (Fig. 1A, device 40 rested on cross bar 42a). When the lift table 10 raised, when the lift table 10 raised the angle of support plate 49 and deck 11 rotated forward and upward at the time which was defined by the angle and extended of device 40. By 40 by selected holes 200a, 200b, 200d, 200d, on brackets 55a, 55b (200d it tilt or declines more than bracket 55a, 55b, (D200 is tilting or decline more than A200) or adjusting 200a). The extensible device 40 can be adjusting adjust stop pin 52 to extend the extensible rod 50 used as a locking pin 52 also the extend leg can be used as tilter device or incline device.

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In the embodiments of FIGS. 2C, 2D, 2E 2F, the Figs. 2C, 2D, 2E, 2F, are side view of the tilt-back six wheeler, two wheeler hand truck and the elevation of the lift table 10. It shows the show thereof, as it can be used to load and unload box 201 from the truck bed 200.

—elevation of lift table showing use thereof, as it used to loading and unloading box 200
from truck bed 201.

FIG. 2C, shows the lift table 10Fig. 2C, showing the device lifting and transporting box 201, from the truck bed 200. FIG. 2D. It show200, from truck bed 201.Fig. 2D, showing the device transformed to tilt-back six-wheeler position to standard two-wheeler alsoan transferred the weight box 201 to the truck bed 200. The200, used safety lock 202 ispivotally attach to the truck bed, Using safety lock 202 attach to the support plate 49, setsattach to truck bed set to prevent the support plate sliding away or tilting 49 from sliding away or tilting. Then rotate hand truck around safety lock 202 between loading platform or dock to truck rear end loading platform. FIG. 2E, shows the lift table 10 is extended toback ward. Fig. 2E, showing the lift table is extended scissor legs and wheels assembly 16a, 16b, 18a, 18b. It also transforms lift table 10 back to tilt-back position. It will rest on the support surface, releasing safety lock 202, then stepped on to the cross bar 42a. On heavier loads it prevents lift table 10 from the tilting use of the extending legs 72a, 72b. With the16a, 16b, 18a, 18b, also transformed platform 10 back to tilt-back position will rest on support surface, released safety lock 202, stepped on cross bar 42a, (on heavier load to prevented the lift table 10 tilting use extending legs 72a and 72b with cross bar 73a move forwardan pasthe center gravity of the load and move the lift table 10 away from the truck bed 200. Thenload) moved lift table 10 away from truck bed 200 and lowering the lift table 10 to a tilted back position, the lift table 10table 10 to tilted back position the lift table 10 is secured in the desired angle. FIG. 2F showsFig. 2F showing the lift table 10 is lowered and in transporting. To load box 201 and lift table 10 on the truck 200, reverse the procedure (or lift table 10 on truck 200 reverse the procedure(2F, 2E, 2D, 2C,).

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In the embodiment depicted in FIG. 3A, shown in lift table 10 is shown lowered to floor level. The fig. 3A, shown in the lift table 10 lowered to the floor level, the support plate 49 is be removed from the support plate channel 43 and lowered, for engagement with the floor, as seen in FIG. 1T. The extensible device 40 is attached to the floor (can be seen in Fig. 1T), the extensible tilter bare 40 attached to hand crank pusher wheel. In FIG. 3C, the locking pinwheel 48 Fig. 3C, with locking pin 302 and 303 is mounted to bracket 44, with the locking pin 303 or locking pin 53a (bracket 51). In 51) in such a manner that cranking the extensible device 40 causes the lift table 10 bar 40 caused the lift table 10 and support plate 49 to move moved forward in relation to the floor. Then it is floor and be able to lift many stags of boxes 301 in one pass. In the embodiment of FIG. 3B, shown in Fig. 3B, shown in the lift table 10 in an lift table 10, an elevated position. It is ready to tilt and unload boxes 301 as near to elevated position ready to tilting and unloaded boxes 301 such as near a truck or van, an elevated loading dock, tilting table or loading pallet with out the equipped fork with forks device.

In the embodiments depicted in FIGS. 3A and 3C. The fig. 3A, 3C, hand crank pusher wheel is comprised of a wheel 310 welded to one side of the center one side to center of gear 309 and attached to the wheel support 320 311 by the locking pin 303. On the upper portion of the wheel support 320, provided with a pocket 316 hole and a locking pin 321 attached to extensible device wheel support 311 are provided with pocket 320 hole 316 and locking pin 321 to attach extension 40. A pair of springs 318a, 318b, are hooked to the lower edge of the select lever 314 by hole 319. The 319 and the opposite end is hooked to a one way push mechanism 340 312. Both end are hooked to holes 317a, 317b. 317b. The wheel support 320 311 is provided with pivot pin 313 and attaches to a one way mechanism 340 312 and pivot pin 315 to the select lever 314, below pivot 314. When pushing pin 315 is provided with pin stop select lever 340. When push the select lever 314 to the left it will cause the spring 318a to pull the one way the push mechanism 312 is to tilted and lower to the right side and locking on center gear 309 in such a manner, that when cranking extensible device 40 to the left it causes wheel 310 to rotate push mechanism 312 to tilt and lower the right side which locking on gear 309 in such a manner that when cranking the extension 40 to the left causes the wheel 310 to rotated clock wise in one way so as to reverse push the select lever to the right side and crank extensible device extension 40 to right.

In the embodiment depicted in FIG. 3D Fig. 3D shown in the hand truck usage condition or standard two wheeler. The support plate 49 locked in support plate channel 43. This 43 this achieves a minimum width thereof between the rearward surfaces of the wheel member 18a, 18b 18a and 18b which can be stored in a minimum amount of space. The hand truck space also can be stored in car trunk or used in side home and transform to step ladder Fig. 4A, scaffold Fig. 4B, 2A, 2B.

In the embodiments depicted of figs. 4A and 4b the lift table 10 is used as a multi-purpose scaffold and stepladder position. A stepladder 400a is coupled to the lift table 10 by coupling In the embodiments depicted in FIGS. 4A and 4b lift table 10 is used as a scaffold and a stepladder in position. Stepladder 400a, is coupled to lift table 10 by coupling end send 402a, 402b by insert in the upper deck pockets 403a, 403b, 403c, 403d. The 43a, 43b and 43c, 43d stepladder 400b is coupled to lift table 10 the lift table 10 by coupling end 402c, as seen in 402d, FIG. 11 and 1T. They seen in 11 and 1T are inserted in support plate channel 43, then rotated by the swivel wheels assembly 16a, 16b, at a 180 degrees, 180 degree used as floor stop set to prevent a roll away. The ladders 400a, roll away also the ladders 400 and 400b can be stored below the platform assembly

deck 11 FIG. 4B. The Fig. 4B, the lift table 10 is in used as a multi-purpose scaffold that positions position, with the extended legs 72a, 72b, 72c, 72d. Inserted 72d, inserted to scissor legs 15a, 15b, 15c, 15d and cross bar assembly 73a, 73b, they are attached to the extended legs (FIGS. 1N, (Fig. 1N, 1O,). A pair of hand rails 420a, 420b are coupled to the lift table 10 by coupling 420b, couple to the lift table 10 by coupling end 404a, 404b, 404d, 404e, ends 404a, 404b, 404d, 404e, Insert in insert in upper deck pockets 405a, 405b, 405c, 405d, 405c 405d, respectively are shown in 1I.

The device can be used in a number of functions, such as a portable loading dock, for overhead maintenance repair, lifting loads, tools, and/or repair, for lifting load, tools, lumber. The operator may stand on the deck and ride it up to the proper elevation. Either while elevation, either under the control of an assistant or a control by the operator as he rides (a remote (re mode control device not shown). The shown, the deck can be tiling parallel to the ceiling, roof, pole or work piece for more convenient when repair. Another possible use is the telescopic supports that in sure adaptation to any standing surface contour. Extensible and retractable climb-through apertures at the end of the deck 11 permit the safe platform permit safe access to the scaffold movement surface.

— In the embodiments depicted in FIGS. 5A, and 5B, the work bucket of figs 5A, 5B, the buget 500 is coupled to lift table 10 by coupling brackets 502a, 502b. They 502b, welded to both side of the work bucket buget, and inserted in the upper deck pockets 403a, 403c, and bolted by 503a, 503b. The 503b, to the front edge of work bucket buget 500 is welded to with bracket 501 (FIGS. 1K and 1L) Fig. 1K, 1L,) and inserted to support plate channel 43 locking by locked 61.

43, then locking by support plate channel locked 61. It can be operated to function similarly to FIGS. 2A and 2B. FIG. 5B can be elevated. Can be operate or function similar to Fig. 2A, 2B, fig 5b can be elevated and load or unload to the truck bed. The work bucket allows you to Work bucket allow you lower to the floor level, and let you low load on an off, it is designed Design to position containers with part within fingertip and reach

166, at a 180 degrees, as Neer step set to prevent a fall away. The ladders 100a, 100b
can be stored below the deck 111 FIG. 1B. The lift table 10 is used as a scaffold that

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the of assembly line. Workers line workers and machine operator also can eliminate bending and stretching that is required to remove component from deep baskets and boxes.

In the embodiments depicted in FIGS. 6A and 6B of figs 6A, 6B, the lift table 10 is lowered to the floor level. The level, the head rest 600 is coupled to deck 11 by coupling pins and holes 601a, 601b. Inserting in to the upper deck. The mechanic's creeper works as a seat support. A worker can platform 10 by coupling pin 601a, 601b, inserting in hole 601a, 601b, to upper deck. mechanic's creeper work as seat supports a worker an upright or set the tool box at the same time; also elevate the tool box at a desired level for working condition. It is desire level for work condition, convenient with a remote control and useful for a business or at home. It can be inclined to support the business and home. Can be incline support worker when working in a face down position to reach where it's hard to get at. It's easy to adjust it and easy to adjusting high when you work.

In the embodiments of FIGS. 6C and 6D lift table 10 is used as a floor jack. Position FIG. 6C, shows Fig. 6C, 6D, the lift table 10 is in used as a multi-purpose floor jack position. Fig. 6c, shown the lift table ten in lowered to the floor level. The level, the extension 610 is inserted between the lift arm 32b or lift arm 23 in FIG. 1G and uses a and using top portion of the extension 610 to elevate and lift the frame of a vehicle. A floor jack elevated and lifting at frame of vehicle or can be remove the lift arm 13 assembly from cross bar bracket 34c, 34d by removing pin 611 from the ball joint 24, 26, 38a, 38b from bracket 34c and 34d by remove pin 611 from ball joint shaft. A floor jack of the type typically employed for automotive repair work that which can load and unload automotive parts, spare tires, raise and align the vehicle at the same time also is portable, foldable, and light weight and can fit in the car's trunk.

Abstract: A combination lifting, platform, tilt back hand truck, scaffold, work buget,
floor jack and mechanic' ^{mech} sleeper is disclosed. The combination is a portable and foldable unit,
that converts in to a tilt back hand truck having two wheels or six wheels that having, a lift
table having extensible legs, and extensible tilt device, a platform having flexible
combination support plate, and approach lamp. This combination also provides coupling
device such as pocket and bracket, which can be coupled to a plurality of space attachments
for multiple purposes such as scaffold, work buget, floor jack, mechanic' sleeper.

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~~the of assembly line. Workers line workers and machine operator also can eliminate bending and stretching that is required to remove component from deep baskets and boxes.~~

In the embodiments depicted in FIGS. 6A and 6B of FIGS. 6A, 6B, the lift table 10 is lowered to the floor level. The level, the head rest 600 is coupled to deck 11 by coupling 601a, 601b, and the deck 11 is inclined to the upper deck. The mechanism 600 is used as a seat support. A worker can platform 10 by coupling pin 601a, 601b, inserting in hole 601a, 601b, to upper deck, mechanic's creeper work as seat supports a worker an upright or set the tool box at the same time. also elevate the tool box at a desired level for working condition. It is desire level for work condition, convenient with remote control and useful for a business or at home. It can be inclined to support the business and home. Can be incline support worker when working in a face down position to reach where it's hard to get at. It's easy to adjust it and easy to adjusting high when you work.

In the embodiments of FIGS. 6C and 6D lift table 10 is used as a floor jack. Position FIG. 6C, shows Fig. 6C, 6D, the lift table 10 is in used as a multi-purpose floor jack position. Fig. 6c, shown the lift table ten in lowered to the floor level. The level, the extension 610 is inserted between the lift arm 32b or lift arm 23 in FIG. 1G and uses a and using top portion of the extension 610 to elevate and lift the frame of a vehicle. A floor jack elevated and lifting at frame of vehicle or can be remove the lift arm 13 assembly from cross bar bracket 34c, 34d by removing pin 611 from the ball joint 24, 26, 38a, 38b from bracket 34c and 34d by remove pin 611 from ball joint shaft. A floor jack of the type typically employed for automotive repair work that which can load and unload automotive parts, spare tires, raise and align the vehicle at the same time also is portable, foldable, and light weight and can fit in the car's trunk.



Serial No. 09/942,855

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GROUP 3600

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: _____
ANNOP MAGNESS : Examiner: _____
Serial No.: 09/942,855 :
Filed: August 29, 2001 :

For: COMBINATION LIFTING, _____
PLATFORM, HAND TRUCK, _____
SCAFFOLD, FLOOR JACK :
AND MECHANICAL CLEPER :

Group Art
Unit: 3619

PRELIMINARY AMENDMENT

Commissioner of Patents and Trademarks
Washington, DC 20231

Dear Sir:

Preliminarily to the examination of this application, please amend this application, as follows:

Amend the title to read:

~~MULTIUSE LIFTING AND ROLLING PLATFORM~~

IN THE CLAIMS:

Add the following new claims:

2. A multiuse lifting and rolling platform comprising:

a wheeled assembly;

a platform frame assembly positioned above
said

wheeled assembly, said platform frame assembly having a crossbar, all of said platform frame assembly being movable upwardly and downwardly in relation to said wheeled assembly;

— lifting structure connected to said wheeled assembly and to said cross bar for lifting and lowering said platform frame assembly in relation to said wheeled assembly, said lifting structure being selected from group consisting of: a screw threaded jack, a ratchet jack, a hydraulic cylinder, a hydraulic actuator, and a screw actuator;

— an extensible structure different from said lift structure having first end pivotally mounted to said rear end of platform frame and said second end pivotally mounted into said a selected one of said upper cross bar and to said lower cross bar;

— a platform having first and second ends and having said first end pivotally connected to said platform frame assembly and said second end of said platform being releasibly supported by said cross bar, a lock assembly connected between said second end of said platform and said cross bar.

3. A multiuse platform comprising:

a wheeled support assembly having a lower crossbar, ~~second and third~~^{first} pair scissors legs connected to said lower crossbar;

a platform frame assembly positioned above said wheeled support assembly, said platform frame assembly having an pivoted end, ~~second and third~~^{pair} scissor legs mount to said pivoted end, said platform frame assembly lying on top of said upper cross bar of said first and forth scissor legs, ~~said first and second scissor legs being pivoted together intermediate their ends and said third and fourth~~^{pair} scissor legs being pivoted together intermediate their ends, so that said platform frame assembly is movable upwardly and downwardly in relation to said wheeled support assembly;

lift structure connected to said lower cross bar on said wheeled assembly and to said upper cross bar for lifting said platform frame assembly with respect to said wheeled assembly, said lift structure comprising an upper arm and a lower arm, said upper arm being pivotally connected to said upper cross bar and said lower arm being pivoted to said lower cross bar, said upper and lower arms being pivoted together;

a lift drive structure connected to said lift

lift structure for raising said platform frame assembly to a desired elevation, said lift drive structure being selected from a group consisting of: a screw thread jack, a telescoping support, a hydraulic cylinder, a hydraulic actuator and a screw actuator;

an extensible structure different from said lift structure having first end pivotally mounted to said rear end of platform frame and said second end pivotally mounted into said a selected one of said upper cross bar and to said lower cross bar;

a platform having first and second ends and having said first end connected to said extensible structure and said second end pivotally attached to said platform frame assembly to permit angular raising of said first end of said platform with respect top said platform frame assembly, said platform having a locking assembly thereon, said locking assembly releasibly locking of platform to said platform frame assembly:

a platform frame assembly having one end connected to support plate locking assembly thereon, said locking assembly releasibly engaging said support plate to

permit releasable locking of said support plate to said platform frame assembly;

a support plate locking structure different from said platform frame locking structure pivotally connected to first and second rear end of said support plate.

a platform having a platform frame assembly and lower cross bar brackets first pair scissors legs are easily detachable manner, by couple by said attached hand crank wheel pusher, pockets, self locking and support plate channel locking structure , used to permit and detachable to perform a scaffold, work bucket, floor jack and mechanical creeper.

4. The multiuse platform of claim 3 wherein said platform frame assembly can be vertically or angularly raised and lowered with respect to said wheeled assembly.

5. The multiuse platform of claim 3 wherein said lift structure includes only a single lift drive structure which is pivotally connected to said upper and lower arms so that said upper and lower arms can be folded together for compact storage.

6. The multiuse platform of claim 3 wherein said upper and lower lift arms are pivotally coupled together at one end and the other end of said upper lift arm is pivotally connected to said upper cross bar by a ball joint assembly and said lower lift arm is pivotally connect to said lower cross bar with a ball joint assembly.

7. the multiuse platform of claim 3 where in said platform frame lock structure includes, bolt, spring, lock support plate channel,.

8. The multiuse platform of claim 7 wherein said there is support plate attachment structure on the pivoted end of said platform frame, lock said support plate in a position at an angle to said platform frame when said support plate is in a hand truck usage position.

9. The multiuse platform of claim 7 where in said support plate lock includes spring, a stop, slot and rod holder attached to between first and second end of said support plate so that said support plate pivotally mounted on said platform frame so that it can swing from a position where it lies on top of said platform frame locking structure to a position where it hangs down from the end of said platform frame structure, and there is rods between said support plate and said platform frame which locks said support plate with respect to said platform frame at selected angular positions so that said platform frame to comprise a retractable support plate approach ramp system for joining said platform to an adjacent loading surface.

10. The multiuse platform of claim 7 wherein said spring can be compressed to release said support plate lock to release said support plate from said platform frame lock structure.

11. the multiuse platform of claim 7 wherein said support plate safety lock is pivotally mounted to said truck bed rear end or dock alike is provided said hand truck rotation around safety lock between loading said platform or dock to truck rear end loading platform;

12. The multiuse platform of claim 3 wherein said extensible structure comprises first and second members telescopically interengaged and movable into a selected one of a plurality of total length positions and releasably lockable into a selected one of a plurality of positions.

13. The multiuse platform of claim 12 wherein said platform frame cross bare bracket is provided a selected one of a plurality of positions for selected platform frame rotate and angle;

14. The multiuse platform of claim 12 wherein said extensible structure has its upper end pivotally mounted onto

said platform frame cross bar and the its lower end pivotally connected to said wheeled support assembly cross bar so that said platform can be raised to angular lift table position and lowered to tilt back hand truck position.

15. The multiuse platform of claim 12 wherein said extensible structure is removable from said upper and lower cross bars and said extensible structure is releasably lockable into a selected one of a plurality of positions for selected platform angle and rotation.

16. The multiuse platform of Claim 12 wherein there is extend device, extensible structure being connected to said upper cross bar and engaging to said platform frame said platform is in tilt back hand truck position said support plate locked by said safety lock to said truck rear end or dock alike and said when said platform is lower, said platform is folded by pivoting about the top ends of said ~~second and third~~first pair scissor legs for selective use to performing raising load and platform it' self to truck bed or dock alike;

17. The multiuse platform of claim 12 where in said extensible structure is pivotally attached to said upper cross bar by means of a removable stop pin through a bracket hole in said upper cross bar so that said extensible structure can support said upper cross bar or rotate to folded position below said platform for use as a hand truck.

18. A multiuse platform comprising:

~~said first and second scissors legs being pivoted together intermediate their ends and said third and fourth scissors legs being pivoted together intermediate their ends;~~

~~first, second, third and fourth scissors legs, each of said scissors legs having an upper end and a lower end, first, second, third and fourth floor-engaging wheels respectively attached to said lower ends of said first, second, third and fourth scissors legs;~~

~~a lift structure comprising a plurality of scissor legs each having an upper end and a lower end, at least some of said scissor legs being pivoted together intermediate said upper and lower ends so that in a lowered position they lie substantially coplanar and in a raised position said upper ends of said scissor legs lie above said~~

lower ends of said scissor legs, said lower ends of said scissor legs having floor engaging structure thereon, a lift structure connected between said scissor legs so that said lift structure can be actuated to raise said upper ends of said scissor legs above said lower ends of said scissor legs;

19. The multiuse platform of Claim 18 wherein there is ~~telescoping~~ ^{first and second pair of extend and reinforce legs} structure associated with the lower end of each of said ~~first, second, third and fourth~~ ^{first and second} pair of scissor legs so that said floor engaging ~~extend and reinforce legs cross bar~~ wheels respectively on said ~~first, second, third and fourth~~ ^{first and second} pairs of scissor legs can be ~~or~~ moved away from said pivots between said scissor legs.

legs.

20. The multiuse platform of claim 18 wherein said scissor legs are tubular and said second and third scissor legs are pivoted together outside said tube of said tubular legs and said first and fourth scissor legs are pivoted together outside of said tube of said tubular legs on pivot pins so that telescoping extensions can be telescopically positioned in said tubular legs space for inserting leg extensions or for reinforcing said tubular legs.

21. The multiuse platform of Claim 18 wherein said floor engaging structure on said scissor legs comprises wheels on at least some of said scissor legs.

22. The multiuse platform of Claim 18 further including telescopinglock structure on said first and second pair of scissor legs so that said scissorfirst and second pair of extend and reinforce legs can be extended and extended releasably lockable to first and second pair scissor legs.

23. the multiuse platform of claim 18 where in said telescopingextend and reinforce legs structure can be extended included floorengagingextend and reinforce legs structure comprises wheels cross bar assembly and cross bar support assembly at lease some of said floor engaging structure.

24. the multiuse platform of claim 18 where in said telescoping extend structure are releasably lockable to cross bar wheels assembly and cross bar assembly.

25. A multiuse lifting and rolling platform a platform having first and second ends and having said first end connected to said extensible structure and said second

end pivotally attached to said platform frame assembly to permit

angular raising of said first end of said platform with respect top said platform frame assembly, said platform having a locking assembly thereon, said locking assembly releasibly locking of platform to said platform frame assembly:

a platform frame assembly having one end connected to support plate locking assembly thereon, said locking assembly releasibly engaging said support plate to permit releasible locking of said support plate to said platform frame assembly;

a support plate locking structure different from said platform frame locking structure pivotally connected to first and second rear end of said support plate. and;

a platform having a platform frame assembly and

lower cross bar scissors legs second third are easily detachable manner, by couple by a group consisting of said pockets, brackets, self locking and support plate channel locking structure, used to permit and detachable to perform a different from said hand truck and lifting function.

26. the multiuse platform of claim 25 where in said hand crank wheel pusher or electric wheel pusher is pivotally

detachable to said rear lower cross bar bracket when said platform and said support plate in lower to the floor level provided force to sliding said support plate below load or stag of boxes alike;

27. ~~The multiuse platform of claim 25 further including a of step ladder and a rails for use with said platform as a scaffold and ladder.~~

28. The multiuse platform of claim 27 wherein said stepladder and scaffold include a removable rail attached into a support pocket in said platform to act as an anti-falling device.

29. The multiuse platform of claim 28 wherein said stepladder and scaffold include a removable stepladder attached to an upper support pocket in said platform and a support plate channel in said platform for selective use

for performing work at a high elevation and for raising a load and worker.

30. The multiuse platform of claim 29 wherein said platform and said scaffold can be utilized for high elevation tilting unloading or loading.

31. The multiuse platform of claim 25 wherein there is a head rest for selective attachment to said combination so that it can be used as use a mechanic's creeper.

32. The multiuse platform of claim 31 wherein said combination is configured to provide seat support, lifting and support for a tool box at desired level.

33. The multiuse platform of claim 25 further including a floor jack extension for selective use as floor jack.

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34. The multiuse platform of claim 33 wherein said floor jack is configured to load or unload parts aligned by raising said platform.

R E M A R K S

The above claims are presented before examination to further define the inventor's belief in the scope of his invention.

A favorable examination is respectfully requested.

Respectfully submitted,

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Inventor/Applicant

Serial No. 09/942,855

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